CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-05-02-09** **Date: 05-05-17**

Sample ID No : 2017-05-02-09-02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.1	
3	Specific Gravity	2.59	–
4	Bulk Density(Loose) (Kg/l)	1.50	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.18	–

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-02-09** **Date: 05-05-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at bhagyasree layout near Chamundeshwari temple in ward no.06.Byatarayanapura Sub Division
Agency	:	Sri.R.Nataraj, Contractor, #860, 19th Cross, 5th block, HMT layout, Vidyaranyapura, Bangalore-97
Customer Reference	:	EE/BTP/BBMP/E-PMT/69/2013-14
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-17
Sample ID No	:	2017-05-02-09-02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-05-17

AE ward no 6

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	231	231	4.6	95.4	90-100
3	10 mm	2554	2785	55.7	44.3	25-55
4	4.75 mm	2025	4810	96.2	3.8	0-10
5	Pan	190	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-05-02-09** **Date: 05-05-17**

Sample ID No : 2017-05-02-09-02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**10.2**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**9.9**	
3	Specific Gravity	**2.62**	_
4	Bulk Density(Loose) (Kg/l)	**1.51**	_
5	Bulk Density(Compacted) (Kg/l)	**1.57**	_
6	Water Absorption(%)	**0.29**	_
7	Aggregate crushing Value(%)	**23.6**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**22.5**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-05-02-09** **Date: 05-05-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at bhagyasree layout near Chamundeshwari temple in ward no.06.Byatarayanapura Sub Division
Agency	:	Sri.R.Nataraj, Contractor, #860, 19th Cross, 5th block, HMT layout, Vidyaranyapura, Bangalore-97
Customer's Reference	:	EE/BTP/BBMP/E-PMT/69/2013-14
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-17
Sample ID No	:	2017-05-02-09-03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	02-05-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	32	32	3.2	96.8	90-100	90-100	90-100	95-100
3	2.36 mm	188	220	22.0	78.0	60-95	75-100	85-100	95-100
4	1.18 mm	195	415	41.5	58.5	30-70	55-90	75-100	90-100
5	600 micron	219	634	63.4	36.6	15-34	35-59	60-79	80-100
6	300 micron	193	827	82.7	17.3	5-20	8-30	12-40	15-50
7	150 micron	91	918	91.8	8.2	0-10	0-10	0-10	0-15
8	Pan	82	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-05-02-09** **Date: 05-05-17**

Sample ID No : 2017-05-02-09-03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.87	_
2	Specific Gravity	2.52	_
3	Material finer than 75 micron(%)	7.7	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Authorized Signatory
Quality Manager

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-29-09** **Date: 30/05/2017**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at bhagyasree layout near Chamundeshwari temple in ward no.06.Byatarayanapura Sub Division

Agency : Sri.R.Nataraj, Contractor, #860, 19th Cross, 5th block, HMT layout, Vidyaranyapura, Bangalore-97

Customer's Reference : EE/BTP/BBMP/E-PMT/69/2013-14

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-05-17

Sample ID No : 2017-05-29-09-01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	23/05/2017	30/05/2017	150.82 X 150.51 X 150.19	22700	8.132	292.8	12.9	12.7
2	PCC	M15	23/05/2017	30/05/2017	151.04 X 150.23 X 150.11	22691	8.164	283.6	12.5	
3	PCC	M15	23/05/2017	30/05/2017	151.92 X 150.16 X 150.72	22812	8.206	289.7	12.7	

Note:

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-24

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-29-09** **Date: 20/06/2017**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at bhagyasree layout near Chamundeshwari temple in ward no.06.Byatarayanapura Sub Division

Agency : Sri.R.Nataraj, Contractor, #860, 19th Cross, 5th block, HMT layout, Vidyaranyapura, Bangalore-97

Customer's Reference : EE/BTP/BBMP/E-PMT/69/2013-14

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-05-17

Sample ID No : 2017-05-29-09-02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	23/05/2017	20/06/2017	150.23 X 150.14 X 150.26	22556	8.230	390.2	17.3	17.0
2	PCC	M15	23/05/2017	20/06/2017	150.46 X 150.29 X 150.87	22613	8.220	386.7	17.1	
3	PCC	M15	23/05/2017	20/06/2017	150.19 X 150.10 X 150.32	22544	8.230	372.0	16.5	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-06-05-03** **Date: 07/06/2017**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at bhagyasree layout near Chamundeshwari temple in ward no.06.Byatarayanapura Sub Division

Agency : Sri.R.Nataraj, Contractor, #860, 19th Cross, 5th block, HMT layout, Vidyaranyapura, Bangalore-97

Customer's Reference : EE/BTP/BBMP/E-PMT/69/2013-14

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-06-17

Sample ID No : 2017-06-05-03-01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	31/05/2017	07/06/2017	150.38 X 150.34 X 150.35	22608	8.361	393.4	17.4	17.5
2	M20 Concrete	M20	31/05/2017	07/06/2017	150.32 X 150.37 X 150.32	22604	8.346	404.6	17.9	
3	M20 Concrete	M20	31/05/2017	07/06/2017	150.32 X 150.42 X 150.38	22611	8.339	386.7	17.1	

Note:

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Certificate No.: TC-5548

CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-06-05-03** **Date: 28/06/2017**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at bhagyasree layout near Chamundeshwari temple in ward no.06.Byatarayanapura Sub Division

Agency : Sri.R.Nataraj, Contractor, #860, 19th Cross, 5th block, HMT layout, Vidyaranyapura, Bangalore-97

Customer's Reference : EE/BTP/BBMP/E-PMT/69/2013-14

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-06-17

Sample ID No : 2017-06-05-03-02

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	31/05/2017	28/06/2017	150.38 X 150.34 X 150.35	22608	8.351	465.7	20.6	20.6
2	M20 Concrete	M20	31/05/2017	28/06/2017	150.32 X 150.37 X 150.32	22604	8.367	467.9	20.7	
3	M20 Concrete	M20	31/05/2017	28/06/2017	150.32 X 150.42 X 150.38	22611	8.343	461.3	20.4	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-06-13-04** **Date: 15/06/2017**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at bhagyasree layout near Chamundeshwari temple in ward no.06.Byatarayanapura Sub Division

Agency : Sri.R.Nataraj, Contractor, #860, 19th Cross, 5th block, HMT layout, Vidyaranyapura, Bangalore-97

Customer's Reference : EE/BTP/BBMP/E-PMT/69/2013-14

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-06-17

Sample ID No : 2017-06-13-04-01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	08/06/2017	15/06/2017	150.38 X 150.34 X 150.35	22608	8.361	393.4	17.4	17.5
2	M20 Concrete	M20	08/06/2017	15/06/2017	150.32 X 150.37 X 150.32	22604	8.346	404.6	17.9	
3	M20 Concrete	M20	08/06/2017	15/06/2017	150.32 X 150.42 X 150.38	22611	8.339	386.7	17.1	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-06-13-04** **Date: 06/07/2017**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at bhagyasree layout near Chamundeshwari temple in ward no.06.Byatarayanapura Sub Division

Agency : Sri.R.Nataraj, Contractor, #860, 19th Cross, 5th block, HMT layout, Vidyaranyapura, Bangalore-97

Customer's Reference : EE/BTP/BBMP/E-PMT/69/2013-14

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-06-17

Sample ID No : 2017-06-13-04-02

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	08/06/2017	06/07/2017	150.38 X 150.34 X 150.35	22608	8.361	486.1	21.5	21.6
2	M20 Concrete	M20	08/06/2017	06/07/2017	150.32 X 150.37 X 150.32	22604	8.346	488.2	21.6	
3	M20 Concrete	M20	08/06/2017	06/07/2017	150.32 X 150.42 X 150.38	22611	8.339	492.9	21.8	

Note:

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ಬ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ, ಬೆಂಗಳೂರು.

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-05-08-09** **Date: 10-05-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at bhagyasree layout near Chamundeshwari temple in ward no.06.Byatarayanapura Sub Division
Agency	:	Sri.R.Nataraj, Contractor, #860, 19th Cross, 5th block, HMT layout, Vidyaranyapura, Bangalore-97
Customer's Reference	:	EE/BTP/BBMP/E-PMT/69/2013-14
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-05-17
Sample ID No	:	2017-05-08-09-01
Sample Type	:	JSW
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	09-05-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	JSW	Fe500	8	0.395	545	675	20.0%	Satisfactory	Satisfactory
2	JSW	Fe500	10	0.613	564	680	20.0%	Satisfactory	Satisfactory

Note:

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CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	**CP-2017-05-08-09** **Date: 09-05-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Bhagyasree layout near Chamundeshwari temple in ward no.06.Byatarayanapura Sub Division
Agency	:	Sri.R.Nataraj, Contractor, #860, 19th Cross, 5th Block, HMT layout, Vidyaranyapura, Bangalore-97
Customer's Reference	:	EE/BTP/BBMP/E-PMT/69/2013-14
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-05-17
Sample ID No	:	2017-05-08-09-02
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	08-05-17

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**69**	60 to 70
2	Softening Point, °C	**50.4**	Min. 40°C
3	Ductility, cm	**95**	Min. 75cm
4	Flash point, °C	**231**	Min. 220°C
	Fire point, °C	**245**	

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-05-17-12** **Date: 19-05-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at bhagyasree layout near Chamundeshwari temple in ward no.06.Byatarayanapura Sub Division
Agency	:	Sri.R.Nataraj, Contractor, #860, 19th Cross, 5th block, HMT layout, Vidyaranyapura, Bangalore-97
Customer Reference	:	EE/BTP/BBMP/E-PMT/69/2013-14
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-05-17
Sample ID No	:	2017-05-17-12-01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	17-05-17
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	298	298	2.7	97.3	95-100
22.4	2364	2662	24.2	75.8	60-80
11.2	2267	4929	44.8	55.2	40-60
4.75	2352	7281	66.2	33.8	25-40
2.36	1634	8915	81.0	19.0	15-30
0.6	653	9568	87.0	13.0	8-22
0.075	1323	10891	99.0	1.0	0-5

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-05-17-12** **Date: 19-05-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at bhagyasree layout near Chamundeshwari temple in ward no.06.Byatarayanapura Sub Division
Agency	:	Sri.R.Nataraj, Contractor, #860, 19th Cross, 5th block, HMT layout, Vidyaranyapura, Bangalore-97
Customer Reference	:	EE/BTP/BBMP/E-PMT/69/2013-14
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-05-17
Sample ID No	:	2017-05-17-12-01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	17-05-17

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	302.6	302.6
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	71.4	72.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	230.9	230.2
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.3	0.4
5	Aggregate impact value	(B/A)*100	23.6	23.8
6	Aggregate impact value (Mean of two tests)	Pecentage	23.7	

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TEST RESULTS OF GRADATION FOR SDBC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-05-24-04** **Date: 26-05-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at bhagyasree layout near Chamundeshwari temple in ward no.06.Byatarayanapura Sub Division
Agency	:	Sri.R.Nataraj, Contractor, #860, 19th Cross, 5th block, HMT layout, Vidyaranyapura, Bangalore-97
Customer Reference	:	EE/BTP/BBMP/E-PMT/69/2013-14
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-05-17
Sample ID No	:	2017-05-24-04-01
Type of Mix	:	SDBC-Plant (Semi Dense Bituminous Concrete)
Date of test	:	24-05-17
Weight of Sample	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100	100
9.5	426	426	8.52	91.48	90-100
4.75	2167	2593	51.86	48.14	35-51
2.36	1036	3629	72.58	27.42	24-39
1.18	508	4137	82.74	17.26	15-30
0.3	397	4534	90.68	9.32	9-19
0.075	178	4712	94.24	5.76	3-8
PAN	288	5000	100.00	0.00	0

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರ ಕಛೇರಿ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR SEMI DENSE BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2017-05-24-04** **Date: 27-05-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at bhagyasree layout near Chamundeshwari temple in ward no.06.Byatarayanapura Sub Division
Agency	:	Sri.R.Nataraj, Contractor, #860, 19th Cross, 5th block, HMT layout, Vidyaranyapura, Bangalore-97
Customer Reference	:	EE/BTP/BBMP/E-PMT/69/2013-14
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-05-17
Sample ID No	:	2017-05-24-04-01
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)
Date of test	:	24-05-17

Physical Requirements fo Coarse Aggregate for Semi Dense Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.5	Combined Flakiness & Elongation Index for DBM is Maximum 35%	IS:2386 Part I
	Elongation Index	10.4		
Strength	Aggregate Impact Value	22.2	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.56	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.26	Maximum 2%	IS:2386 Part III

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2017-05-24-04** **Date: 27-05-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at bhagyasree layout near Chamundeshwari temple in ward no.06.Byatarayanapura Sub Division
Agency	:	Sri.R.Nataraj, Contractor, #860, 19th Cross, 5th block, HMT layout, Vidyaranyapura, Bangalore-97
Customer Reference	:	EE/BTP/BBMP/E-PMT/69/2013-14
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-05-17
Sample ID No	:	2017-05-24-04-01
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)
Date of test	:	24-05-17

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	97.8	Minimum Retained Coating 95%
2	98.5	1.5		
3	97.0	3.0		

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2017-05-24-04** **Date: 27-05-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at bhagyasree layout near Chamundeshwari temple in ward no.06.Byatarayanapura Sub Division
Agency	:	Sri.R.Nataraj, Contractor, #860, 19th Cross, 5th block, HMT layout, Vidyaranyapura, Bangalore-97
Customer Reference	:	EE/BTP/BBMP/E-PMT/69/2013-14
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	24-05-17
Sample ID No	:	2017-05-24-04-01
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)
Date of test	:	24-05-17

The results of the tests conducted on the Semi Dense Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-16
1	Marshal Stability at 60°C, KN	11.23	11.31	8.2KN(min)
2	Marshal flow at 60°C, mm	3.46	3.35	2-4
3	Percent air Voids	4.52	4.45	3-5
4	Percent Voids in mineral Aggregate(VMA %)	13.37	13.48	13-15
5	Percent Voids filled with Bitumen(VFB %)	70.32	71.35	65-75
6	Density, g/cc	2.25	2.26	–

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TEST RESULTS OF GRADATION FOR SDBC
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2017-06-26-02**	**Date: 27-06-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to roads and drains at bhagyasree layout near Chamundeshwari temple in ward no.06.Byatarayanapura Sub Division	
Agency	:	Sri.R.Nataraj, Contractor, #860, 19th Cross, 5th block, HMT layout, Vidyaranyapura, Bangalore-97	
Customer Reference	:	EE/BTP/BBMP/E-PMT/69/2013-14	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	26-06-17	
Sample ID No	:	2017-06-26-02-01	
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)	
Date of test	:	26-06-17	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	503	501
2	Weight of the sample After extraction	B	479	475
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.77	5.19
4	Average percentage	%	5.0	

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Lab ID : CP-RW-2017-06-26-02 **Date: 27-06-17**

Sample ID No : 2017-06-26-02-01

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 479

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	34	34	7.10	92.9	90-100
4.75	253	287	59.92	40.1	35-51
2.36	56	343	71.61	28.4	24-39
1.18	31	374	78.08	21.9	15-30
0.3	41	415	86.64	13.4	9-19
0.075	34	449	93.74	6.3	3-8
PAN	30	479	100.00	0.0	0

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 475

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	31	31	6.53	93.5	90-100
4.75	248	279	58.74	41.3	35-51
2.36	59	338	71.16	28.8	24-39
1.18	37	375	78.95	21.1	15-30
0.3	36	411	86.53	13.5	9-19
0.075	31	442	93.05	6.9	3-8
PAN	33	475	100.00	0.0	0

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